

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/053445

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01R13/52 H01R13/514 H01R13/719

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 91 05 135 U1 (B. BRAUN MELSUNGEN AG, 3508 MELSUNGEN, DE) 13 June 1991 (1991-06-13)	1,2,12
Y	page 9, paragraph 3 - page 10, paragraph 1; figures	10,11,13
A	US 3 015 687 A (RUSCITO ANTHONY J) 2 January 1962 (1962-01-02) figure 4	1,12
A	DE 196 08 245 A1 (VORWERK & CO INTERHOLDING GMBH, 42275 WUPPERTAL, DE) 11 September 1997 (1997-09-11) figures	1,12
Y	US 5 518 418 A (LARABELL ET AL) 21 May 1996 (1996-05-21) column 4, line 24; figures	10,11,13

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*Z\* document member of the same patent family

Date of the actual completion of the international search

10 May 2005

Date of mailing of the international search report

31.05.05

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Langbroek, A

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 03/100940 A (PROTECTCONNECT, INC) 4 December 2003 (2003-12-04) abstract; figures 1B, 2B -----	3
A	US 6 309 248 B1 (KING GERALD N) 30 October 2001 (2001-10-30) abstract; figures 1-3 -----	3
A	US 6 268 561 B1 (BUSCELLA CLAUDIO) 31 July 2001 (2001-07-31) abstract; figure 1 -----	3
A	US 2002/042223 A1 (BELOPOLSKY YAKOV ET AL) 11 April 2002 (2002-04-11) paragraph '0052!; figure 3 -----	3

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Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
DE 9105135	U1	13-06-1991	NONE	
US 3015687	A	02-01-1962	NONE	
DE 19608245	A1	11-09-1997	AT 222669 T	15-09-2002
			DE 59708004 D1	26-09-2002
			DK 824769 T3	16-12-2002
			WO 9733350 A1	12-09-1997
			EP 0824769 A1	25-02-1998
			ES 2177935 T3	16-12-2002
			PT 824769 T	31-01-2003
US 5518418	A	21-05-1996	NONE	
WO 03100940	A	04-12-2003	AU 2003248564 A1	12-12-2003
			EP 1512197 A2	09-03-2005
			WO 03100940 A2	04-12-2003
			US 2003236010 A1	25-12-2003
			US 2003236011 A1	25-12-2003
US 6309248	B1	30-10-2001	CA 2330786 A1	27-07-2001
			US 2002072272 A1	13-06-2002
US 6268561	B1	31-07-2001	IT 1302672 B1	29-09-2000
			CA 2286214 A1	14-04-2000
US 2002042223	A1	11-04-2002	US 6350152 B1	26-02-2002
			CA 2355916 A1	23-02-2002
			EP 1182746 A1	27-02-2002
			JP 2002093530 A	29-03-2002
			TW 514311 Y	11-12-2002

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## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

**See supplemental sheet**

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

☐

The additional search fees were accompanied by the applicant's protest.

☒

No protest accompanied the payment of additional search fees.

**INTERNATIONAL SEARCH REPORT**

International application No.

**PCT/EP2004/053445**

The International Searching Authority has determined that this international application contains multiple (groups of) inventions, namely:

1. Claims: 1, 2, 12

Connector device and use thereof, protected against dripping or splashed water.

2. Claims: 3-9

Connector device with interference suppressor filter.

3. Claims: 10, 11, 13

Connector device, connector system and use thereof with single or group plug on the wiring harness side.